



Calibration Certificate Number

UC/23/1114-12

Page No: 2 of 2

ULR No: CC299623000001068F

Range : 100 - 1000 μ l

Increment : 1 μ l

Sl. No.	Micropipette Set Volume in μ l	Standard Balance Reading in g	Actual Calculated Volume @ 27°C in μ l	Average Volume in μ l	Systematic Error, \pm in μ l	Random Error, in \pm in μ l
1	100	0.09999	100.34	100.25	0.25	0.13
2		0.09978	100.13			
3		0.10011	100.46			
4		0.09985	100.20			
5		0.09978	100.13			
6		0.10003	100.38			
7		0.09992	100.27			
8		0.09984	100.19			
9		0.09968	100.03			
10		0.09998	100.33			
11	500	0.50027	502.03	502.59	2.59	0.41
12		0.50143	503.19			
13		0.50125	503.01			
14		0.50041	502.17			
15		0.50107	502.83			
16		0.50098	502.74			
17		0.50104	502.80			
18		0.50065	502.41			
19		0.50089	502.65			
20		0.50030	502.06			
21	1000	1.00120	1004.72	1005.10	5.10	0.63
22		1.00136	1004.88			
23		1.00276	1006.29			
24		1.00065	1004.17			
25		1.00184	1005.36			
26		1.00203	1005.55			
27		1.00146	1004.98			
28		1.00221	1005.73			
29		1.00104	1004.56			
30		1.00121	1004.73			

Measurement Uncertainty : \pm 0.30 μ l upto 100 μ l

Conclusion / Remarks: 1.27 μ l above 100 μ l

- 1 Measurement uncertainty is at confidence level 95% which corresponds to a coverage factor of k= 2.20
- 2 Calibration is performed as per ISO 8655 - 6 : 2002 (E)
- 3 Gravimetric Method is adopted for calibration

Calibrated By



Authorised By